

Abstract

A molding base paper used for forming paper vessels such as a cup or tray for foods and various industrial products is disclosed which satisfies the following conditions (1) to (4):

- (1) a tensile strength (JIS-P 8113) of at least 2.0 kN/m,
- (2) an elongation at break (JIS-P 8113) of at least 1.5 %,
- (3) a critical compression stress, defined by the following formula, in the range of 1 to 10 MPa:

$$\text{critical compression stress} = A/B$$

wherein A represents the compression strength determined by JIS-P 8126, and B represents the area of loaded part of the test piece in the determination of the compression strength, and

- (4) an amount of the compression deformation, caused by applying compression stress of 20 kgf/cm² in thickness direction, of at least 10 %.

The paper vessels are prepared by controlling the water content of the molding base paper at 10 to 20 % and then drawing the molding base paper at 100 to 150°C.